

10/070532

610 Rec'd PCT/PTO 07 MAR 2002

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re National Stage Application of: SOPPET et al.

Application Serial No.: Unassigned  
(International Application No.: PCT/US00/24518)

Art Unit: Unassigned

Filed: Herewith  
(International Filing Date: September 10, 2000)

Examiner: Unassigned

For: Human Neuropeptide Receptor

Attorney Docket No.: PF168P3

**STATEMENT UNDER 37 C.F.R. 1.821(f)**

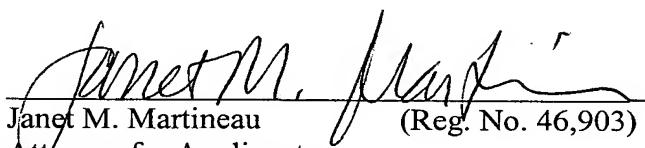
Commissioner For Patents  
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. § 1.821(f), Applicants hereby certify that the sequence listing information recorded in computer readable form and submitted herewith is identical to the written (on paper) Sequence Listing submitted herewith.

Respectfully submitted,

Dated: March 7, 2002

  
Janet M. Martineau (Reg. No. 46,903)  
Attorney for Applicants

**Human Genome Sciences, Inc.**  
9410 Key West Avenue  
Rockville, Maryland 20850  
Telephone: 301-315-2723

Enclosures  
JMM/SA/lcc



PCT10

ENTERED

P5

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002  
TIME: 09:57:18

Input Set : A:\168P3-SL.txt  
Output Set: N:\CRF3\03252002\J070532.raw

3 <110> APPLICANT: Soppet et al.  
 5 <120> TITLE OF INVENTION: Human Neuropeptide Receptor  
 7 <130> FILE REFERENCE: PF168P3  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/070,532  
 C--> 9 <141> CURRENT FILING DATE: 2002-03-07  
 9 <150> PRIOR APPLICATION NUMBER: 09/393,696  
 10 <151> PRIOR FILING DATE: 1999-09-10  
 12 <160> NUMBER OF SEQ ID NOS: 23  
 14 <170> SOFTWARE: PatentIn Ver. 2.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 1278  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Homo sapiens  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: CDS  
 23 <222> LOCATION: (1)..(1278)  
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 30 agc aga gag ccg tcc cct gtg cct cca gac tat gaa gat gag ttt ctc 96  
 31 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu  
 32 20 25 30  
 34 cgc tat ctg tgg cgt gat tat ctg tac cca aaa cag tat gag tgg gtc 144  
 35 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val  
 36 35 40 45  
 38 ctc atc gca gcc tat gtg gct gtg ttc gtc gtg gcc ctg gtg ggc aac 192  
 39 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn  
 40 50 55 60  
 42 acg ctg gtc tgc ctg gcc gtg tgg cgg aac cac cac atg agg aca gtc 240  
 43 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val  
 44 65 70 75 80  
 46 acc aac tac ttc att gtc aac ctg tcc ctg gct gac gtt ctg gtg act 288  
 47 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr  
 48 85 90 95  
 50 gct atc tgc ctg ccg gcc agc ctg ctg gtg gac atc act gag tcc tgg 336  
 51 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp  
 52 100 105 110  
 54 ctg ttc ggc cat gcc ctc tgc aag gtc atc ccc tat cta cag gct gtg 384  
 55 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val  
 56 115 120 125  
 58 tcc gtg tca gtg gca gtg cta act ctc agc ttc atc gcc ctg gac cgc 432  
 59 Ser Val Ser Val Ala Val Leu Thr Leu Ser Phe Ile Ala Leu Asp Arg

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| 63  | Trp Tyr Ala Ile Cys His Pro Leu Leu Phe Lys Ser Thr Ala Arg Arg |     |     |      |
| 64  | 145   | 150 | 155 | 160  |
| 66  | gcc cgt ggc tcc atc ctg ggc atc tgg gct gtg tcg ctg gcc atc atg |     |     | 528  |
| 67  | Ala Arg Gly Ser Ile Leu Gly Ile Trp Ala Val Ser Leu Ala Ile Met |     |     |      |
| 68  | 165   | 170 | 175 |      |
| 70  | gtg ccc cag gct gca gtc atg gaa tgc agc agt gtg ctg cct gag cta |     |     | 576  |
| 71  | Val Pro Gln Ala Ala Val Met Glu Cys Ser Ser Val Leu Pro Glu Leu |     |     |      |
| 72  | 180   | 185 | 190 |      |
| 74  | gcc aac cgc aca cgg ctc ttc tca gtc tgt gat gaa cgc tgg gca gat |     |     | 624  |
| 75  | Ala Asn Arg Thr Arg Leu Phe Ser Val Cys Asp Glu Arg Trp Ala Asp |     |     |      |
| 76  | 195   | 200 | 205 |      |
| 78  | gac ctc tat ccc aag atc tac cac agt tgc ttc ttt att gtc acc tac |     |     | 672  |
| 79  | Asp Leu Tyr Pro Lys Ile Tyr His Ser Cys Phe Phe Ile Val Thr Tyr |     |     |      |
| 80  | 210   | 215 | 220 |      |
| 82  | ctg gcc cca ctg ggc ctc atg gcc atg gcc tat ttc cag ata ttc cgc |     |     | 720  |
| 83  | Leu Ala Pro Leu Gly Leu Met Ala Met Ala Tyr Phe Gln Ile Phe Arg |     |     |      |
| 84  | 225   | 230 | 235 | 240  |
| 86  | aag ctc tgg ggc cgc cag atc ccc ggc acc acc tca gca ctg gtg cgg |     |     | 768  |
| 87  | Lys Leu Trp Gly Arg Gln Ile Pro Gly Thr Thr Ser Ala Leu Val Arg |     |     |      |
| 88  | 245   | 250 | 255 |      |
| 90  | aac tgg aag cgc ccc tca gac cag ctg ggg gac ctg gag cag ggc ctg |     |     | 816  |
| 91  | Asn Trp Lys Arg Pro Ser Asp Gln Leu Gly Asp Leu Glu Gln Gly Leu |     |     |      |
| 92  | 260   | 265 | 270 |      |
| 94  | agt gga gag ccc cag ccc cgg gcc cgc gcc ttc ctg gct gaa gtg aag |     |     | 864  |
| 95  | Ser Gly Glu Pro Gln Pro Arg Ala Arg Ala Phe Leu Ala Glu Val Lys |     |     |      |
| 96  | 275   | 280 | 285 |      |
| 98  | cag atg cgt gca cgg agg aag aca gcc aag atg ctg atg gtg gtg ctg |     |     | 912  |
| 99  | Gln Met Arg Ala Arg Arg Lys Thr Ala Lys Met Leu Met Val Val Leu |     |     |      |
| 100 | 290   | 295 | 300 |      |
| 102 | ctg gtc ttc gcc ctc tgc tac ctg ccc atc agc gtc ctc aat gtc ctt |     |     | 960  |
| 103 | Leu Val Phe Ala Leu Cys Tyr Leu Pro Ile Ser Val Leu Asn Val Leu |     |     |      |
| 104 | 305   | 310 | 315 | 320  |
| 106 | aag agg gtg ttc ggg atg ttc cgc caa gcc agt gac cgc gaa gct gtc |     |     | 1008 |
| 107 | Lys Arg Val Phe Gly Met Phe Arg Gln Ala Ser Asp Arg Glu Ala Val |     |     |      |
| 108 | 325   | 330 | 335 |      |
| 110 | tac gcc tgc ttc acc ttc tcc cac tgg ctg gtg tac gcc aac agc gct |     |     | 1056 |
| 111 | Tyr Ala Cys Phe Thr Phe Ser His Trp Leu Val Tyr Ala Asn Ser Ala |     |     |      |
| 112 | 340   | 345 | 350 |      |
| 114 | gcc aac ccc atc atc tac aac ttc ctc agt ggc aaa ttc cgg gag cag |     |     | 1104 |
| 115 | Ala Asn Pro Ile Ile Tyr Asn Phe Leu Ser Gly Lys Phe Arg Glu Gln |     |     |      |
| 116 | 355   | 360 | 365 |      |
| 118 | ttt aag gct gcc ttc tcc tgc tgc ctg cct ggc ctg ggt ccc tgc ggc |     |     | 1152 |
| 119 | Phe Lys Ala Ala Phe Ser Cys Cys Leu Pro Gly Leu Gly Pro Cys Gly |     |     |      |
| 120 | 370   | 375 | 380 |      |
| 122 | tct ctg aag gcc cct agt ccc cgc tcc tct gcc agc cac aag tcc ttg |     |     | 1200 |
| 123 | Ser Leu Lys Ala Pro Ser Pro Arg Ser Ser Ala Ser His Lys Ser Leu |     |     |      |
| 124 | 385   | 390 | 395 | 400  |

## RAW SEQUENCE LISTING

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Input Set : A:\168P3-SL.txt

Output Set: N:\CRF3\03252002\J070532.raw

126 tcc ttg cag agc cga tgc tcc gtc tcc aaa atc tct gag cat gtg gtg 1248  
 127 Ser Leu Gln Ser Arg Cys Ser Val Ser Lys Ile Ser Glu His Val Val  
 128 405 410 415  
 130 ctc acc agc gtc acc aca gtg ctg ccc tga 1278  
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 137 <212> TYPE: PRT  
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 143 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu  
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 145 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val  
 146 35 40 45  
 147 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn  
 148 50 55 60  
 149 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val  
 150 65 70 75 80  
 151 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr  
 152 85 90 95  
 153 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp  
 154 100 105 110  
 155 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val  
 156 115 120 125  
 157 Ser Val Ser Val Ala Val Leu Thr Leu Ser Phe Ile Ala Leu Asp Arg  
 158 130 135 140  
 159 Trp Tyr Ala Ile Cys His Pro Leu Leu Phe Lys Ser Thr Ala Arg Arg  
 160 145 150 155 160  
 161 Ala Arg Gly Ser Ile Leu Gly Ile Trp Ala Val Ser Leu Ala Ile Met  
 162 165 170 175  
 163 Val Pro Gln Ala Ala Val Met Glu Cys Ser Ser Val Leu Pro Glu Leu  
 164 180 185 190  
 165 Ala Asn Arg Thr Arg Leu Phe Ser Val Cys Asp Glu Arg Trp Ala Asp  
 166 195 200 205  
 167 Asp Leu Tyr Pro Lys Ile Tyr His Ser Cys Phe Phe Ile Val Thr Tyr  
 168 210 215 220  
 169 Leu Ala Pro Leu Gly Leu Met Ala Met Ala Tyr Phe Gln Ile Phe Arg  
 170 225 230 235 240  
 171 Lys Leu Trp Gly Arg Gln Ile Pro Gly Thr Thr Ser Ala Leu Val Arg  
 172 245 250 255  
 173 Asn Trp Lys Arg Pro Ser Asp Gln Leu Gly Asp Leu Glu Gln Gly Leu  
 174 260 265 270  
 175 Ser Gly Glu Pro Gln Pro Arg Ala Arg Ala Phe Leu Ala Glu Val Lys  
 176 275 280 285  
 177 Gln Met Arg Ala Arg Arg Lys Thr Ala Lys Met Leu Met Val Val Leu  
 178 290 295 300

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179 Leu Val Phe Ala Leu Cys Tyr Leu Pro Ile Ser Val Leu Asn Val Leu  
180 305 310 315 320  
181 Lys Arg Val Phe Gly Met Phe Arg Gln Ala Ser Asp Arg Glu Ala Val  
182 325 330 335  
183 Tyr Ala Cys Phe Thr Phe Ser His Trp Leu Val Tyr Ala Asn Ser Ala  
184 340 345 350  
185 Ala Asn Pro Ile Ile Tyr Asn Phe Leu Ser Gly Lys Phe Arg Glu Gln  
186 355 360 365  
187 Phe Lys Ala Ala Phe Ser Cys Cys Leu Pro Gly Leu Gly Pro Cys Gly  
188 370 375 380  
189 Ser Leu Lys Ala Pro Ser Pro Arg Ser Ser Ala Ser His Lys Ser Leu  
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198 <211> LENGTH: 1110  
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203 <221> NAME/KEY: CDS  
204 <222> LOCATION: (1)..(1110)  
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211 agc aga gag ccg tcc cct gtg cct cca gac tat gaa gat gag ttt ctc 96  
212 Ser Arg Glu Pro Ser Pro Val Pro Pro Asp Tyr Glu Asp Glu Phe Leu  
213 20 25 30  
215 cgc tat ctg tgg cgt tat ctg tac cca aaa cag tat gag tgg gtc 144  
216 Arg Tyr Leu Trp Arg Asp Tyr Leu Tyr Pro Lys Gln Tyr Glu Trp Val  
217 35 40 45  
219 ctc atc gca gcc tat gtg gct gtg ttc gtc gtg gcc ctg gtg ggc aac 192  
220 Leu Ile Ala Ala Tyr Val Ala Val Phe Val Val Ala Leu Val Gly Asn  
221 50 55 60  
223 acq ctg gtc tgc ctg gcc gtg tgg cgg aac cac cac atg agg aca gtc 240  
224 Thr Leu Val Cys Leu Ala Val Trp Arg Asn His His Met Arg Thr Val  
225 65 70 75 80  
227 acc aac tac ttc att gtc aac ctg tcc ctg gct gac gtt ctg gtg act 288  
228 Thr Asn Tyr Phe Ile Val Asn Leu Ser Leu Ala Asp Val Leu Val Thr  
229 85 90 95  
231 gct atc tgc ctg ccg gcc agc ctg ctg gtg gac atc act gag tcc tgg 336  
232 Ala Ile Cys Leu Pro Ala Ser Leu Leu Val Asp Ile Thr Glu Ser Trp  
233 100 105 110  
235 ctg ttc ggc cat gcc ctc tgc aag gtc atc ccc tat cta cag gct gtg 384  
236 Leu Phe Gly His Ala Leu Cys Lys Val Ile Pro Tyr Leu Gln Ala Val  
237 115 120 125  
239 tcc gtg tca gtg gca gtg cta act ctc agc ttc atc ccc ctg gac cgc 432

RAW SEQUENCE LISTING  
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| 244 | Trp   | Tyr        | Ala | Ile | Cys | His | Pro | Leu | Leu | Phe | Lys | Ser | Thr | Ala | Arg | Arg  |      |  |
| 245 | 145   |            |     |     | 150 |     |     |     | 155 |     |     |     | 160 |     |     |      |      |  |
| 247 | gcc   | cgt        | ggc | tcc | atc | ctg | ggc | atc | ttg | gct | gtg | tcg | ctg | gcc | atc | atg  | 528  |  |
| 248 | Ala   | Arg        | Gly | Ser | Ile | Leu | Gly | Ile | Trp | Ala | Val | Ser | Leu | Ala | Ile | Met  |      |  |
| 249 |       |            |     |     | 165 |     |     |     | 170 |     |     | 175 |     |     |     |      |      |  |
| 251 | gtg   | ccc        | cag | gct | gca | gtc | atg | caa | tcc | agc | agt | gtg | ctg | cct | gag | cta  | 576  |  |
| 252 | Val   | Pro        | Gln | Ala | Ala | Val | Met | Gln | Ser | Ser | Ser | Val | Leu | Pro | Glu | Leu  |      |  |
| 253 |       |            |     |     | 180 |     |     |     | 185 |     |     | 190 |     |     |     |      |      |  |
| 255 | gcc   | aac        | cgc | aca | cgg | ctc | ttc | tca | ctc | tgt | cat | gaa | cgc | tgg | gca | gat  | 624  |  |
| 256 | Ala   | Asn        | Arg | Thr | Arg | Leu | Phe | Ser | Leu | Cys | His | Glu | Arg | Trp | Ala | Asp  |      |  |
| 257 |       |            |     |     | 195 |     |     |     | 200 |     |     | 205 |     |     |     |      |      |  |
| 259 | gac   | ctc        | tat | ccc | aag | atc | tac | cac | agt | tgc | ttc | ttt | att | gtc | acc | tac  | 672  |  |
| 260 | Asp   | Leu        | Tyr | Pro | Lys | Ile | Tyr | His | Ser | Cys | Phe | Phe | Ile | Val | Thr | Tyr  |      |  |
| 261 | 210   |            |     |     | 215 |     |     |     | 220 |     |     |     |     |     |     |      |      |  |
| 263 | ctg   | gcc        | cca | ctg | ggc | ctc | atg | gcc | atg | gcc | tat | ttc | cag | ata | ttc | cgc  | 720  |  |
| 264 | Leu   | Ala        | Pro | Leu | Gly | Leu | Met | Ala | Met | Ala | Tyr | Phe | Gln | Ile | Phe | Arg  |      |  |
| 265 | 225   |            |     |     | 230 |     |     |     | 235 |     |     | 240 |     |     |     |      |      |  |
| 267 | aag   | ctc        | tgg | ggc | cgc | cag | atc | ccc | ggc | acc | acc | tca | gca | ctg | gtg | cgg  | 768  |  |
| 268 | Lys   | Leu        | Trp | Gly | Arg | Gln | Ile | Pro | Gly | Thr | Thr | Ser | Ala | Leu | Val | Arg  |      |  |
| 269 |       |            |     |     | 245 |     |     |     | 250 |     |     | 255 |     |     |     |      |      |  |
| 271 | aac   | tgg        | aag | cgc | ccc | tca | gac | cag | ctg | ggg | gac | ctg | gag | cag | ggc | ctg  | 816  |  |
| 272 | Asn   | Trp        | Lys | Arg | Pro | Ser | Asp | Gln | Leu | Gly | Asp | Leu | Glu | Gln | Gly | Leu  |      |  |
| 273 |       |            |     |     | 260 |     |     |     | 265 |     |     | 270 |     |     |     |      |      |  |
| 275 | agt   | gga        | gag | ccc | cag | ccc | cgg | ggc | cgc | gcc | ttc | ctg | gct | gaa | gtg | aag  | 864  |  |
| 276 | Ser   | Gly        | Glu | Pro | Gln | Pro | Arg | Gly | Arg | Ala | Phe | Leu | Ala | Glu | Val | Lys  |      |  |
| 277 |       |            |     |     | 275 |     |     |     | 280 |     |     | 285 |     |     |     |      |      |  |
| 279 | cag   | atg        | cgt | gca | cg  | agg | aag | aca | gcc | aag | atg | ctg | atg | gtg | gtg | ctg  | 912  |  |
| 280 | Gln   | Met        | Arg | Ala | Arg | Arg | Lys | Thr | Ala | Lys | Met | Leu | Met | Val | Val | Leu  |      |  |
| 281 | 290   |            |     |     | 295 |     |     |     | 300 |     |     |     |     |     |     |      |      |  |
| 283 | ctg   | gtc        | tcc | gcc | ctc | tgc | tac | ctc | ccc | atc | agc | gtc | ctc | aat | gtc | ctt  | 960  |  |
| 284 | Leu   | Val        | Phe | Ala | Leu | Cys | Tyr | Leu | Pro | Ile | Ser | Val | Leu | Asn | Val | Leu  |      |  |
| 285 | 305   |            |     |     | 310 |     |     |     | 315 |     |     | 320 |     |     |     |      |      |  |
| 287 | aag   | agg        | gtg | tcc | ggg | atg | tcc | cgc | caa | gcc | agt | gac | cgc | gaa | gct | gtc  | 1008 |  |
| 288 | Lys   | Arg        | Val | Phe | Gly | Met | Phe | Arg | Gln | Ala | Ser | Asp | Arg | Glu | Ala | Val  |      |  |
| 289 |       |            |     |     | 325 |     |     |     | 330 |     |     | 335 |     |     |     |      |      |  |
| 291 | tac   | gcc        | tgc | tcc | acc | tcc | tcc | cac | tgg | ctg | gtg | tac | gcc | aac | agc | gct  | 1056 |  |
| 292 | Tyr   | Ala        | Cys | Phe | Thr | Phe | Ser | His | Trp | Leu | Val | Tyr | Ala | Asn | Ser | Ala  |      |  |
| 293 |       |            |     |     | 340 |     |     |     | 345 |     |     | 350 |     |     |     |      |      |  |
| 295 | gcc   | aac        | ccc | atc | atc | tac | aac | tcc | ctc | agt | ggc | ctt | ccc | tgg | agt | ctg  | 1104 |  |
| 296 | Ala   | Asn        | Pro | Ile | Ile | Tyr | Asn | Phe | Leu | Ser | Gly | Leu | Pro | Trp | Ser | Leu  |      |  |
| 297 |       |            |     |     | 355 |     |     |     | 360 |     |     | 365 |     |     |     |      |      |  |
| 299 | ctc   | taa        |     |     |     |     |     |     |     |     |     |     |     |     |     | 1110 |      |  |
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| 305 | <212> | TYPE:      | PRT |     |     |     |     |     |     |     |     |     |     |     |     |      |      |  |

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/070,532

DATE: 03/25/2002

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14